Lab Dept: Urine/Stool

Test Name: 17-HYDROXYPROGESTERONE, URINE

General Information

Lab Order Codes: 17HU

Synonyms: 17-Hydroxy Progesterone, Urine; 17-OH Progesterone, Urine

CPT Codes: 83498 – Hydroxyprogesterone, 17-d

Test Includes: Urine 17-Hydroxy Progesterone is measured by radioimmunoassay following extraction of specimens.

Logistics

Test Indications: 17-Hydroxy Progesterone is a steroid derived primarily from enzymatic metabolism of Progesterone and 17-Hydroxy Pregnenolone. It is converted enzymatically to Androstenedione and 11-Deoxycortisol. It is produced in both the gonads and adrenal glands. It is excreted into the urine in conjugated and unconjugated forms of 17-Hydroxy Progesterone and as Pregnanetriol. This assay measures the total of the conjugated and unconjugated forms. It is stimulated by ACTH and supressed by Dexamethasone. Levels of urine 17-Hydroxy Progesterone are greatly increased in patients with Polycystic Ovarian Disease and Congenital Adrenal Hyperplasia and show exaggerated responses to ACTH in these cases. 17-Hydroxy Progesterone is the marker steroid for determining cases of 21a-Hydroxylase Deficient Congenital Adrenal Hyperplasia. Urine levels are frequently elevated in patients with idiopathic hirsutism.

Lab Testing Sections: Urine/Stool - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: ZW71 - Misc) and forwarded to Inter Science Institute

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 5 – 9 days; performed Monday - Friday

Special Instructions: Refrigerate or keep specimen on ice during 24 hour collection. There is no preservative. See Patient Preparation.

Specimen
Specimen Type: Urine, 24 hour collection

Container: Plastic, leak-proof urine collection container

Draw Volume: Entire collection

Processed Volume: 10 mL (Minimum: 5 mL) urine from a well-mixed 24 hour collection

Collection: Routine 24 hour urine collection, refrigerate during collection

Special Processing: Lab Staff: Mix 24 hour specimen well. Measure and record total urine volume. Remove aliquot into a screw-capped round bottom plastic vial. Provide total 24 hour volume. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: Patient should not be on any Corticosteriod, ACTH, steroid, estrogen, or gonadotropin medication, if possible, for at least 48 hours prior to start of urine collection.

Sample Rejection: Specimens other than urine, mislabeled specimens or unlabeled specimens

Interpretive

Reference Range: 17-Hydroxyprogesterone:

<table>
<thead>
<tr>
<th>Age</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Males:</td>
<td>Up to 2.0 ug/24 hours</td>
</tr>
<tr>
<td>Adult Females:</td>
<td>Up to 4.5 ug/24 hours</td>
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</tbody>
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Critical Values: N/A

Limitations: N/A

Methodology: Radioimmunoassay (RIA) following extraction of specimens

References: Mayo Medical Laboratory Web Page November 2017

Inter Science Institute November 2017

Updates: 11/13/2017: Updated reference range and order codes.